Table 2.—Data furnished by the Canadian Meteorological Service, March 1933

	Altitude above mean sea level, Jan. 1, 1919	Pressure			Temperature of the air					Pi	Precipitation		
Stations		Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Depar- ture from normal	Mean max.+ mean min.÷2	Depar- ture from normal	Mean maxi- mum	Mean mini- mum	Highest	Lowest	Total	Depar- ture from normal	Total snowfall
Cape Race, N. F. Sydney, C.B.I. Halifax, N.S. Yarmouth, N.S. Charlottetown, P.E.I.	Feet 99 48 88 65 38	In. 29, 69 29, 66 29, 69 29, 70	29, 74 29, 77 29, 76 29, 74	In0.14171916	⁶ F. 27. 5 29. 3 31. 2 25. 7	* F. +1.3 +.3 +.4 +.3	° F. 33.7 34.8 36.6 31.1	° F. 23. 8 21. 2 23. 8 25. 8 20. 3	° F. 43 42 46 42	° F. 13 8 7 13 2	In. 2.71 5.86 5.30 5.98 4.22	In. +0.93 16 +.98 +1.01	In. 14. 5 42. 6 18. 3 15. 4 31. 7
Chatham, N.B. Father Point, Que Quebec, Que Doucet, Que Montreal, Que	28 20 296 1, 236	29. 71 29. 86 29. 60 29. 71	29. 74 29. 89 29. 94 29. 93	16 01 02 07	21. 3 20. 8 22. 5 12. 8 26. 0	$ \begin{array}{r} -1.7 \\ +.5 \\ +1.3 \\ +2.2 \end{array} $	29. 3 27. 4 28. 5 27. 6 32. 3	13. 3 14. 1 16. 5 -1. 9 19. 8	40 40 44 45 44	$ \begin{array}{r} -10 \\ 0 \\ -3 \\ -36 \\ -2 \end{array} $	2. 64 2. 80 3. 99 2. 76 3. 41	\$3 +. 07 +. 73 38	24. 4 28. 0 39. 6 25. 2 30. 2
Ottawa, Ont	285 379	29, 68 29, 64 29, 55 28, 69	29, 96 29, 96 29, 98 30, 06	05 05 04 +. 03	27. 2 29. 0 31. 6 15. 4 13. 9	+5.7 +3.4 +4.3 +1.7	34. 9 34. 9 36. 6 25. 7 28. 4	19. 5 23. 2 26. 6 5. 0 5	48 45 50 42 47	$ \begin{array}{c} -3 \\ 8 \\ -16 \\ -28 \end{array} $	3. 42 3. 42 1. 79 2. 24 1. 59	+. 70 +. 78 85 +. 01	30. 8 6. 4 5. 7 20. 3 13. 9
London, Ont	688	29, 24 29, 26 29, 35 29, 25	29, 97 29, 97 30, 08 30, 12	06 05 +. 03 +. 03	29. 6 27. 2 25. 4 21. 7 17. 1	+2.5 +4.3 +4.9 +4.8	34. 8 33. 5 32. 7 30. 1 27. 4	24. 5 20. 8 18. 1 13. 4 6. 8	50 54 45 42 48	1 8 -9 -12 -19	3. 53 2. 85 2. 91 1. 15 . 47	+. 20 +. 68 +. 18 56	9. 7 13. 9 20. 1 9. 1 2. 7
Minnedosa, Man	860	28, 22 27, 69 27, 35	30. 12 30. 01 29. 94	+.06 03 08	16. 7 11. 6 22. 4 29. 9	+4. 2 +7. 5 +7. 9	26. 3 24. 2 31. 3 40. 7	7. 1 -1. 0 13. 6	51 52 57 68	$ \begin{array}{r} -25 \\ -28 \\ -22 \end{array} $ -15	. 14 1. 27 . 53	51 24 49	1. 4 10. 0 5. 1 3. 2
Medicine Hat, Alb Calgary, Alb Bantf, Alb Prince Albert, Sask Battleford, Sask	4, 521 1, 450	27. 38 26. 17 28. 47 28. 24	29, 90 29, 95 30, 12 30, 05	-, 10 , 00 +, 02 -, 01	31. 7 26. 9 15. 7 16. 9	+4. 2 +. 7 +3. 7 +3. 8	42. 4 36. 9 26. 0 27. 3	21. 1 16. 9 5. 4 6. 5	62 56 44 50	$ \begin{array}{r} -10 \\ -17 \\ -33 \\ -29 \end{array} $.75 .20 .73 1.31	01 52 04 +. 85	5. 9 2. 0 7. 1 11. 7
Edmonton, Alb	9 150	29, 73	29.99	+. 02	44.0	+2.1	48.7	39. 3	55	34	1.90	-1, 22	T
Prince Rupert, B.C		29.90	30. 07	01	62.8	+.6	67. 7	58.0	75	51	2. 60	-2.53	.0
LATE REPORTS FOR FEBRUARY 1933													
Yarmouth, N.S. Kamloops, B.C. Estevan Point, B.C. Prince Rupert, B.C.	1, 262 20 170	29. 69 28. 72	29, 76 29, 98	-0.23 +.02	31. 8 23. 7 37. 8 33. 9	+6.0 -4.6	37. 9 29. 9 42. 8 38. 2	25. 6 17. 6 32. 9 29. 7	50 55 47 50	10 -12 20 19	4.85 .63 11.77 6.96	+0.68 16	18. 2 6. 2 2. 0 6. 3

SEVERE LOCAL STORMS, MARCH 1933

[Compiled by Mary O. Souder]
[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authori	ty
Northeastern Nebraska	4-6					Heavy snow	6 to 30 inches of snow, breaking 24-hour record for March at several stations.	Official, U.S. Bureau.	Weather
Shelby County, Tenn	6	5:30 a.m		2		Wind	7 persons injured when walls of hospital collapsed.	Do.	
Chicot County, Ark	6	-			\$75,000	do	Dredge boat on Mississippi River capsized and 1 man drowned; property damaged.	Do.	
Canton, N.YMilwaukee, Wis	8				1, 500	Glaze and wind Strong winds	Telephone poles down Property damaged and lake traffic impeded	Do. Do.	
Ludington, Mich	9	A.m				Gale	Ice along shore plugged intake pipe; parts of city without water.	Do.	
Nampa, Idaho	12	5–5:30 p.m ₋	19		15,000	Wind	Damage to telephone and power lines; aerial tower of radio station demolished; path 9 miles long.	Do.	
Northeastern Indiana	13	8:30 p.m	11		100, 000	Hail and tornado		Do.	
Allen and Hardin Coun- ties, Ohio.	13	9-10 p.m			150, 000	Tornadic winds	Path strewn with wreckage of many farms, trees, telephone and telegraph poles.	Do.	
Herman, Ark., and vicin-	14	5 p.m	433		17,000	Tornado	No lives lost; 6 persons injured; property damaged.	Do.	
ity. Nashville, Tenn	14		200-800	15	2, 200, 000	Tornado and hail		Do.	
Knox, Gibson, Pike, and Dubois Counties, Ind.	14	p.m. P.m.			34, 500	Wind and hail	Damage to property and heavy loss in peach crop.	Do.	
Harrodsburg, Ky., and vicinity.	14	-	- 			do	No details	Do.	
Dunklin and Pemiscot Counties, Mo.	14	-	880		200,000	Wind	Considerable damage to property	Do.	
Montgomery and Bed-	15	12:30-3:00 a.m.	1 1,2-3		2, 100	do	Property damage	Do.	
ford Counties, Va. Carmichael, Calif	16					Tornadic winds	Rose bushes uprooted; blackberry vines torn down; property damaged.	Do.	
Lodi (near), Calif	16	3 p.m		-		Tornado	Garage shifted on foundation; instrument shelter overturned.	Do.	

¹ Miles instead of yards.

MONTHLY WEATHER REVIEW

SEVERE LOCAL STORMS, MARCH, 1933—Continued

Expertance 11 1967 1975							TORMS, WAR	CH, 1933—Continued			
Expertance 11 193 20 20 20 20 30 30 30 3	Place	Date	Time	path	of	property		Remarks	Authority		
Spectable Proceedings Proceding Pr	Delhi (near), Calif	16	4:15 p.m			2,000	Tornado		Official U.S. Weather		
Restorts to 13 miles south 15 25 p.m. 20 1,000 7 miles 1,000 1 miles south 1 miles 1,000 1 miles south 1 miles 1	Spartanburg, S.C	17	11:30 p.m			6,000	Thundersquall	Dwelling demolished by wind; 2 persons in-			
Surgerville, Nation 18	Benton to 11 miles south	18	3:30 p.m	200		15,000	Tornado	jured; power lines demolished. 1 person injured; property damaged	Do.		
	Burnsville, Miss			100	;-	5, 000		No details			
December	ity.		_	1	i		İ	transmission lines torn down; path 1 mile long.	:		
Other commons 18-19	Iowa, southwest, center,			1 150		112,000	Glaze and heavy	Weight of snow caused roofs to collapse; damage to telephone and telegraph lines; traffic			
Methoda, Nove pents 18-20	Ohio, extreme northwest-	18–19				500	Glaze	Telephone wires damaged	Do.		
Michigan 1985	Northern Illinois	18-20	 			8,000	Glaze and ice		Do.		
Omaha, Neber. 15-90 2,000 Rom; setc, and Danage to genenouse; traine (daybed.) Do.	Michigan, lower penin-	18-20						Much damage to telegraph and telephone lines	Do.		
Select, wind. and Select, wind. Sele	Omaha, Nebr	18-20				2,000	Rain, sleet, and	Damage to greenhouses; traffic delayed	Do.		
Pet Westhington 18-20 18-20 19-20	Milwaukee, Wis		ļ	i :			Sleet, wind. and snow.	wires; roads and pavements slippery; property damaged.	D ₀ .		
Alice to Yorkstum, Tex. 19 A.m. 10	Port Washington to Grant County, Wis.	18-20					Sleet, glaze, and wind.	Wires broken and 400 poles blown down; small	Do.		
Consider Text Considerable Text Text Considerable Text Text Considerable Text Text Considerable Text	Grand Rapids, Mich		10:20 a.m 12:47 p.m.					l .	Do.		
Consider Text Considerable Text Text Considerable Text Text Considerable Text Text Considerable Text	Alice to Yoakum, Tex Jim Wells to Lavaca		A.m A.m				Winddo	Houses blown from foundations; crops damaged. Windows blown in; several houses blown from	Do. Do.		
Descriptor, Iowa 19-20 Descriptor, Iowa D	Counties, Tex. Madison, Wis. (7 miles	19					1	l their foundations			
Northern lower Michi 19-3	east of). Davenport, Iowa				-		Glaze and high	Considerable trouble with overhead wires; much	Do.		
Laddington, Mitch	Northern lower Michigan.		1		1		1	No damage reported	Do.		
Sea Bright, N.J.	Grand Rapids, Mich., and vicinity.		8:15 - 11 a.m.		- -		do	1	Do.		
	Ludington, Mich		1				1	places.	Do.		
	Sea Bright, N.JJeffersonville, N.Y., and		A.m	- -		35, 000 30, 000	WindGlaze	Residence washed out to sea			
Springfield, III	Hazelhurst, Pa., and vi-	20					Ice storm	Ice 2 inches thick froze on trees, wires and all sur-			
Bridgeport, Okla. 26-7	Springfield, Ill	00.07					Heavy snow	Snow stuck to trees and bushes			
Denrey Colo. 230 P.m. 2	·							lars damage.			
Apache, Okfa. 30 3 p.m. 10,000 do. Storm confined to pasture lands with no damage Do.				1 1	- 1			mated.			
Apache, Okfa. 30 3 p.m. 10,000 do. Storm confined to pasture lands with no damage Do.	Hugo, Okla	30	4:30 a.m	14		60,000	Heavy hail	Property damaged: path 10 miles long	Do.		
Fordies to Pennington, Tex. 10,000 do. 13 persons injured; property damaged. Do.	Apache, Okla		3 p.m				do	Storm confined to pasture lands with no damage			
Lindale, Tex. 30 3 p.m. 2 75,000 do. Property damaged; 10 persons injured. Do. San Augustine, Tex. 30 3-0.30 p.m. 410 4,000 Tornados (2) 20 persons injured; property damaged. Do. Do. San Augustine, Tex. 30 3-0.30 p.m. 410 4,000 Tornados (2) 20 persons injured; property damaged. Do. D	Fordice to Pennington,	30	3 p.m			10, 000	do	13 persons injured; property damaged	Do.		
Overbrook Kans. (3 miles southeast of). Osage and D o u t l 1 s Counties, Kans. Harmon and Hall Summit, La., and vicinity. Mt. Holly, Ark. (6 miles south of). Oskiand, Kans. Harmon and Hall Summit, La., and vicinity. Oskiand, Kans. Harmon and Hall Summit, La., and vicinity. Oskiand, Kans. O	Lindale, Tex				2	75, 000 75, 000	do	Property damaged; 10 persons injured			
Overbrook Kans. (3 miles southeast of). Osage and D o u t l 1 s Counties, Kans. Harmon and Hall Summit, La., and vicinity. Mt. Holly, Ark. (6 miles south of). Oskiand, Kans. Harmon and Hall Summit, La., and vicinity. Oskiand, Kans. Harmon and Hall Summit, La., and vicinity. Oskiand, Kans. O	San Augustine, Tex		3-6:30 p.m.		6	75,000	Tornadoes (2) Wind	26 persons injured; property damaged. Houses blown from foundations; corn had to be	Do.		
miles southeast of). Osage and D on ug las S Counties, Kans. Harmon and Hall Summit, La, and vicinity. Mt. Holly, Ark. (5 miles south of). Sout			_		T I			renianted.			
Counties, Kans. All Harmon and Hall Summit. La., and vicinity. Art. (5 miles south of). Sp.m. 433 1 2,000 do	miles southeast of).	30	_	l i				•			
mit. La., and vicinity. Mt. Holly, Ark. (6 miles south of). Oakland, Kans	Counties, Kans. Harmon and Hall Sum-	30	4:50-4:55	i i				Damage to property, trees and fences; many			
South 6f). Oakland, Kans	mit, La., and vicinity. Mt. Holly, Ark. (5 miles	30	p.m. 5 p.m	433	1	2,000	do	injured: path 20 miles long.			
San Augustine, Tex. 30 10 p.m. 5,000 1	south of). Oakland, Kans		6 p.m 6:15-6:30	460-1.760		125, 000			Do.		
Eudora, Ark	San Augustine, Tex.	30	p.m. 10 p.m				High winds	Property demaged			
Mississippi (13 counties) 30-31	Eudora, Ark Dubuque, Iowa		P.m	866			Tornado Electrical and	Damage to property; path 5 miles long	Do.		
La Crosse, Wis., and vicinity. A	Mississippi (13 counties).	30-31		33. 800	54	235, 000	_	gardens.	Do.		
Cinity C	La Crosse, Wis., and vi-			1	- 1	·	Heavy rain and	1933.			
Plymouth, Springfield, and Algoma, Miss. 2achary to Darlington, 31 9:55-11a.m 66 3 55,000 Tornado 15 persons injured and property damaged; path Do. 40 miles long.	cinity. Warren County, Miss	31		l i		900	flood. Wind	No details			
and Algoma, Miss. Zachary to Darlington, La. West Point, Miss. Sherman, Miss. Lacombe to Pearl River section, La. Fletcher, Okla. Brewton, Ala. (7 miles northwest of). Perdido Bay to mouth of Escambia River, Fla. Choctawhatchee Na- tional Forest, Fla. 31 9:30 p.m. 880-2040 32 9:55-11a.m. 66 3 55,000 Wind. Wind. Wind. Wind. No details. No details. Do. Mode No details. Do. Damage mostly to buildings; path 20 miles long. Do. Damage mostly to buildings; path 20 miles long. Do. Trupentine camp demolished; 40 persons in jured; 13 houses destroyed; path 6 miles long. Tornado. Do. Tornado. Do. Tornado. Do. Turpentine camp demolished; 40 persons in jured; 13 houses destroyed; path 6 miles long. Tornado Church destroyed; dwelling partially destroyed, barn blown in; trees uproted; 8 persons injured. Church destroyed; dwelling partially destroyed, barn blown in; trees uproted; 8 persons injured. Only 1 farm in path and no one injured; path zig-zag and about 35 miles long.	Marks, Miss	31 31	8:20 a.m 9:00 a.m		<i>-</i>		do	do	Do.		
Lacombe to Pearl River section, La. Fletcher, Okla. 31 5 p.m. 440 6, 000 Browth and the first of Escambia River, Fla. Choctawhatchee National Forest, Fla. 31 10 a.m. 5 7, 500 Wind. No details.	Zachary to Darlington,	31	9:55-11a.m.	66	3	55, 000	Tornado	15 persons injured and property damaged; path			
section, La. Fletcher, Okla 31 5 p.m. 440 6,000 do Turpentine camp demolished; 40 persons injured; 13 houses destroyed; path 6 miles long. Property damaged Turpentine camp demolished; 40 persons injured; 13 houses destroyed; path 6 miles long. Choctawhatchee National Forest, Fla. Solutional Forest, Fla. Tornado Only 1 farm in path and no one injured; path zig-zag and about 35 miles long. Only 1 farm in path and no one injured; path zig-zag and about 35 miles long.	West Point, Miss	31	10:30 a.m.		2	1,000	[dol	No detailsdo	Do. Do.		
Brewton, Ala. (7 miles of the m	section, La.					·					
Perdido Bay to mouth of 31 7:30 p.m 150 1,000 Tornadic winds Church destroyed; dwelling partially destroyed, Do barn blown in; trees uprooted: 8 persons injured. Choctawhatchee Na 31 9:30 p.m 880-2040 1,100 Tornado Only 1 farm in path and no one injured; path zig-zag and about 35 miles long.	Brewton, Ala. (7 miles [Turpentine camp demolished; 40 persons in-			
Choctawhatchee Na- 31 9:30 p.m 880-2040 1,100 Tornado Only 1 farm in path and no one injured; path zig- zag and about 35 miles long.	Perdido Bay to mouth of	31	7:30 p.m	150		1, 000	Tornadic winds	Church destroyed; dwelling partially destroyed, barn blown in; trees uprooted: 8 persons	Do.		
Nouthern Baldwin is nm 300 10 000 do Propagad note bourt a miles long	Choctawhatchee Na-	31	9:30 p.m	880-2640		1, 100	Tornado	Only 1 farm in path and no one injured; path zig-	Do.		
Country, Als.	Southern Baldwin	18	p.m	300		10,000	do	Property damaged; path about 6 miles long	Do.		
Knoxville, Tenn	Knoxville, Tenn	31				500	Wind	Barn loft caved in; airport hangar razed	Do.		

